

ABSTRACT

A fuel injector for the direct injection of fuel into the combustion chamber of an internal combustion engine includes a valve needle, which is arranged in a nozzle body, is actuatable by an actuator and acted upon by a restoring spring such that a valve closure member, which is in operative connection to the valve needle and faces the combustion chamber, is kept in sealing contact on a valve seat surface in the non-actuated state of the actuator. A surface of the fuel injector has a concave design in a transition region between the nozzle body and the valve-closure member.